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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,172	11/25/2003	Ronald Ralph Cairo	839-1459 (AMK)	4331
30024 NIXON & VA	7590 06/15/2007 NDERHYE P.C.	EXAMINER		
901 NORTH G	LEBE ROAD, 11TH FLOO	OMGBA,	OMGBA, ESSAMA	
ARLINGTON,	VA 22203		ART UNIT	PAPER NUMBER
			3726	
			MAIL DATE	DELIVERY MODE
			06/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)	<u> </u>				
Office Action Summary		10/720,172	CAIRO, RONALD	RALPH				
		Examiner	Art Unit					
		Essama Omgba	3726					
	The MAILING DATE of this communication app	ears on the cover sheet with	the correspondence add	dress				
Period for	• •							
WHICH - Extension after SD - If NO pe - Failure to Any rep	RTENED STATUTORY PERIOD FOR REPLY EVER IS LONGER, FROM THE MAILING DAYS OF THE MAILING DAYS OF THE MONTHS FROM THE MONTHS FROM THE MONTHS FROM THE MONTHS OF THE MONTHS DAYS OF THE MONTHS DAY	ATE OF THIS COMMUNIC, 16(a). In no event, however, may a repril apply and will expire SIX (6) MONTI cause the application to become ABA	ATION. bly be timely filed HS from the mailing date of this co NDONED (35 U.S.C. § 133).	·				
Status								
1)⊠ R	esponsive to communication(s) filed on 02 Ag	oril 2007.		•				
2a)⊠ T	This action is FINAL . 2b) This action is non-final.							
-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
cl	osed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.					
Dispositio	n of Claims							
4)⊠ Claim(s) <u>1-3,6,7,9-14 and 16</u> is/are pending in the application.								
4a	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□ C	5) Claim(s) is/are allowed.							
•	S)⊠ Claim(s) <u>1-3,6,7,9-14 and 16</u> is/are rejected.							
•	laim(s) is/are objected to.	- alastian rasuiramant						
8)LJ C	laim(s) are subject to restriction and/or	r election requirement.						
Application	n Papers							
9)[] Th	ne specification is objected to by the Examine	r						
•	ne drawing(s) filed on is/are: a) acce		•					
	pplicant may not request that any objection to the							
	eplacement drawing sheet(s) including the correct							
11)∐ TI	ne oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action of form PT	U-152.				
Priority un	der 35 U.S.C. § 119	•						
12) 🗌 Ad	cknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)[_	All b) Some * c) None of:							
1	1. Certified copies of the priority documents have been received.							
	 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
3	·		eceived in this National	Stage				
* \$0	application from the International Bureau e the attached detailed Office action for a list	•	eceived					
36	e the attached detailed Office action for a list	or the certified copies flot i	5061¥64.					
Attachment(s		4) 🗔 Intontion: Ci	ımmary (PTO-413)					
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date					
	ition Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	5) Notice of Inf	ormal Patent Application -					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, 6, 7, 9-14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of Bundschuch et al. (3,502,279).

With regards to claims 1, 6, 7, 9, 10 and 16, Applicant, at pages 1 and 2 of the specification to be known as AAPA, discloses mandrels of varying diameters to accommodate changes in diameter of components fabricated thereon. AAPA does not disclose a core mandrel with a plurality of adapter sleeves to provide mandrels of varying outside diameters. However Bundschuch et al. teaches a core mandrel 8 with a plurality of adapter sleeves 36 to provide mandrels with varying diameters (col. 1, lines 55-64 and col.2, lines 27-28 and 52-53), with interlocking mechanism in the form of pin 38 (col. 2, lines 52-67). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made, to have substituted the plurality of mandrels with varying outside diameters of AAPA with a core mandrel and a plurality of adapter sleeves, in light of the teachings of Bundschuch et al., in order to economically provide mandrels of varying outside diameters. Applicant should note that the adapter sleeves of Bundschuch et al. have an inside diameter sized to engage the core mandrel outside

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diameter across an entire width of the adapter sleeve. Regarding the recitation of the sleeves material and their thermal expansion rate as compared to the core mandrel, Applicant should note that it is within the general knowledge of one of ordinary skill in the art to have used steel adapter sleeves. Furthermore it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416. See also *Ballas Liquidating Co. v. Allied industries of Kansas, Inc.* (DC Kans) 205 USPQ 331.

For claims 2, 3 and 11-14, Applicant should note that it is within the general knowledge of one of ordinary skill in the art to provide appropriate and effective interlocking mechanism between the core mandrel and the adapter sleeves.

Response to Arguments

3. Applicant's arguments with respect to claims 1-3, 6, 7, 9-14 and 16 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Essama Omgba whose telephone number is (571) 272-4532. The examiner can normally be reached on M-F 9-6:30, 1st Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

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eo

June 10, 2007